



Force Constant of a Helical Spring Apparatus

Experiment

To determine the force constant (spring constant) of a helical spring by plotting a graph between load and extension.

Principle

The experiment is based on Hooke's Law, which states that within the elastic limit of a spring, the extension produced is directly proportional to the applied load.

Technical Specifications

1. Support stand with mounted millimeter scale.
2. Scale length: 25 cm.
3. Scale engraved on a plane mirror for parallax-free readings through reflected illumination.
4. Scale mounted with elevation adjustment on a support rod.
5. Helical steel spring suspended from a hook above the scale.
6. Spring dimensions:
 - Diameter: 1 cm
 - Length (unstretched): 3 cm
7. Weight hanger provided for loading the spring.
8. Set of weights included.
9. Total weight: 1.3 kg.
10. Apparatus size: 54 × 14 × 7 cm.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Applications

- Verification of Hooke's Law.
- Determination of spring (force) constant.
- Study of load-extension characteristics of a helical spring.

Packing : Cardboard Box

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